

Mich-A-Con RF

Iron Mountain, Michigan

February 2004

In this issue:

ARRL Proposal

February Meeting

Membership Drive

Upcoming Events

Survey Results

From The Past

Why UTC

Sources for Study
Materials

Please try to attend club meetings and let your voice be heard. We want to make the right decisions and can only do so with input from the membership.

Visit the ARRL's web site at:
<http://www.arrl.org>

ARRL to Propose New Entry-Level License, Code-Free HF Access

NEWINGTON, CT, Jan 19, 2004-The ARRL will ask the FCC to create a new entry-level Amateur Radio license that would include HF phone privileges without requiring a Morse code test. The League also will propose consolidating all current licensees into three classes, retaining the Element 1 Morse requirement--now 5 WPM--only for the highest class. The ARRL Board of Directors overwhelmingly approved the plan January 16 during its Annual Meeting in Windsor, Connecticut. The proposals--developed by the ARRL Executive Committee following a Board instruction last July--are in response to changes made in Article 25 of the international Radio Regulations at World

Radiocommunication Conference 2003 (WRC-03). They would continue a process of streamlining the amateur licensing structure that the FCC began more than five years ago but left unfinished in the Amateur Service license restructuring Report and Order (WT 98-143) that went into effect April 15, 2000.

"Change in the Amateur Radio Service in the US, especially license requirements and even more so when Morse is involved, has always been emotional," said ARRL First Vice President Joel Harrison, W5ZN, in presenting the Executive Committee's recommendations. "In fact, without a doubt, Morse is Amateur

(Continued on page 4)

Mich-A-Con ARC February 11 Meeting

The meeting was called to order by Vice President, Tom Martin, at 7:10 PM, there were 10 members in attendance.

Secretary Report:

The minutes of the January 14 meeting were read and accepted.

Treasurer Report:

Treasurer, Steve Johnson, needs an au-

thorization form to access bank accounts. The form was completed at tonight's meeting and will be submitted to the bank. Roughly, the club has \$286.63 in the checking account (including \$220 in dues received thus far this year) and \$2,573 in the general savings account. No money has been used from the separate repeater account.

(Continued on page 2)

Mich-A-Con ARC February 11 Meeting

(Continued from page 1)

Repeater Report:

Lee reported that no noise was heard on the repeater since last month. So, it looks like the old antenna might have been the cause.

Old Business:

The office of president remains vacant. This issue will be taken up at the next meeting.

A club newsletter, including 2004 dues solicitation and a questionnaire, was sent to members listed on last year's roster and prospective new members. Thus far, 9 questionnaires have been returned. Mike Bray will collate the results of the survey and report at the next meeting. Based on the results, we will discuss whether the monthly meeting day should be changed, what can be done to increase attendance at meetings, what club members' needs are for upgrading their licenses, and whether we should continue to publish a club newsletter.

New Business:

Congratulations to Tom Martin, W8JWN, for passing the Extra Class exam last Saturday!

The secretary read a letter from Kathleen Wolfe, of Northwoods Airlifeline, Ltd., thanking the club for its donation of \$250.

Bob Meyers will determine if there is interest among club members for a dinner get together and will make the necessary arrangements.

Members are needed to support the local scout troop for Jamboree On The Air,

which is conducted on the third weekend in October every year. (October 16 and 17 for 2004)

Discussion:

A question was raised about the ARRL's recent proposal to the FCC regarding elimination of code requirements for all but Extra Class licensees and the restructuring of Amateur Radio licenses into three classes. Lee explained the process of making a proposal, the FCC's Notice of Proposed Rule Making, and the public comment period required before this can become an FCC rule.

Vice President, Tom Martin, introduced a new facet to our meeting, "For The Good Of The Order", which involves a round table discussion of what each member is currently doing in Amateur Radio.

Adjournment:

Motion to adjourn by Burt Armbrust, second by Bob Uren. The meeting was adjourned at 8: 15 PM

Membership Drive

The January newsletter was sent to sixty-seven addressees. Out of twenty-seven paying members from last year's roster, fourteen have renewed their membership. Three previous members have returned to active membership and three new members have joined the club.

If you haven't renewed your membership, please do so today.

Upcoming Events:

Spartan Sprint, CW
March 4

ARRL International DX
Contest, Phone
March 6 - 7

Wisconsin QSO Party
March 14 - 15

Oklahoma QSO Party
March 13 - 14

North American RTTY
Sprint
March 14

YL International SSB
System QSO Party
March 13 - 14

Virginia QSO Party
March 20 - 22

10-10 Mobile Contest
March 20

Russian DX Contest
March 20 - 21

Spring QRP Homebrewer
Sprint
CW/PSK31
March 22

CQ WW SSB WPX
Contest
March 27 - 28

All dates are UTC
see the ARRL web site
March Contests or March
QST for more information

Survey Stats at a Glance:

Surveys returned - 9

Presently active?

Yes - 7

No - 1

Sometimes - 1

Upgrade license now?

Yes - 4

No - 5 *

(* 2 Extra Class)

Want upgrade help?

Yes - 3

No - 1

Able to attend more meet-

ings if day is changed?

Yes - 3

No - 6

Saturday breakfast?

Yes - 6

No - 1

Maybe - 2

Be president now?

Yes - 1

No - 8

Be a future officer?

Yes - 5

No - 4

Want club newsletter?

Yes - 8

No - 0

No answer - 1

Email delivery ok?

Yes - 6

No - 1 *

(* 1 doesn't have email)

Will help with newsletter?

Yes - 4

Mich-A-Con ARC January 2004 Survey Results

Of the 67 questionnaires sent in the January 2004 newsletter, 9 were returned. Here are the results:

Are you presently active in Amateur Radio? Yes 7, No 1, Sometimes 1

What aspects of Amateur Radio do you enjoy?

Building , BSing, CW(2), QRP(2), portable operation, contesting, DXing, QSLing, all, learning CW, working on General, FM 2 meter simplex and repeater, 2 meter mobile(2),

If not active, what is the reason?

No time, carry hand held at work all day so not real eager to do that afterwards.

Got active with two friends, both moved away. Other competing interests.

Are you presently interested in upgrading your Amateur Radio license? Yes 4, No 5*

Upgrading to what class license?

General(4), Extra(1)

* 2 are Extra Class

Is there something the club could do to help you upgrade your license? Yes 3, No 1

Please explain:

Code class(3)

How many club meetings have you attended during the last year?

9, 9,10, 2, 1, 0, 2, 4, 0

If the meeting day was changed, would you be able to attend more often? Yes 3, No 6

Please explain:

Day is fine as is –otherwise no Tuesdays or 3rd Thursdays

Would be about the same.

Can come any night but Wednesday.

Out of town on Wednesdays – prefer Thursday

Wednesday is a bad night – also would be better to go earlier and get out earlier.

Are there other reasons for not attending meetings?

Please explain:

Blizzards, slippery roads.

Other things come up.

Would attend more, but I'm working a lot of overtime.

Meetings in the past have just been business meetings – not much about Ham radio.

If location is a concern for others, I could possibly get a meeting location in Kingsford.

Don't attend often because of medical problems.

In all honesty, as a former club officer, they are not very exciting. When Paul Ward was our president we had guest speakers, etc., which made it more interesting.

What can the club do to make the meetings something you would look forward to attending?

A short program on operating, building, rules, etc.

A 10 or 15 minute show and tell – doesn't have to be a formal presentation.

More about Ham stuff such as building antennas, fixing your own equipment, home projects.

Feature some aspect of Ham radio that people new to it would want to learn more about. (i.e., demonstration of packet or other less known aspects)

Demonstrations in new techniques. Videos of Ham radio events, etc. (DX, emergency operations)

Have guest speakers, etc.

(Continued on page 8)

ARRL to Propose New Entry-Level License, Code-Free HF Access

(Continued from page 1)

Radio's 'religious debate.'" The plan adopted by the Board departs only slightly from the Executive Committee's recommendations.

The "New" Novice

The entry-level license class--being called "Novice" for now--would require a 25-question written exam. It would offer limited HF CW/data and phone/image privileges on 80, 40, 15 and 10 meters as well as VHF and UHF privileges on 6 and 2 meters and on 222-225 and 430-450 MHz. Power output would be restricted to 100 W on 80, 40, and 15 meters and to 50 W on 10 meters and up, thus avoiding the need for the more complex RF safety questions in the Novice question pool.

"The Board sought to achieve balance in giving new Novice licensees the opportunity to sample a wider range of Amateur Radio activity than is available to current Technicians while retaining a motivation to upgrade," said ARRL CEO David Sumner, K1ZZ. "It was also seen as important to limit the scope of privileges so the exam would not have to include material that is inappropriate at the entry level."

As an introduction to Amateur Radio, the Novice license served successfully for most of its 50-year history. The FCC has not issued new Novice licenses since the 2000 license restructuring, however. Under the ARRL plan, current Novice licensees--now the smallest and least active group of radio amateurs--would be grandfathered to the new entry-level class without fur-

ther testing.

Anticipating assertions that the new plan would "dumb down" Amateur Radio licensing, Harrison said those currently holding a ticket often perceive the level of complexity to have been greater when they were first licensed than it actually was. "Quite frankly," he said, "if you review the questions presented in our license manuals throughout the years, you will be surprised how they compare to those of today."

Technicians and Generals

The middle group of licensees--Technician, Tech Plus (Technician with Element 1 credit) and General--would be consolidated into a new General license that no longer would require a Morse examination. Current Technician and Tech Plus license holders automatically would gain current General class privileges without additional testing. The current Element 3 General examination would remain in place for new applicants. ARRL already has proposed additional phone privileges for Generals in its "Novice refarming" petition, RM-10413, but the FCC has not yet acted on that petition.

Morse Code Testing Retained for Extra

At the top rung, the Board indicated that it saw no compelling reason to change the Amateur Extra class license requirements. The ARRL plan calls on the FCC to combine the current Advanced and Amateur Extra class licensees into Amateur Extra,

Proposed Phone/Image HF Subbands (Includes Novice Refarming Proposal)

80 Meters

Extra:
3.725-4.000 MHz (gain of 25 kHz)

General:
3.800-4.000 MHz (gain of 50 kHz)

Novice:
3.900-4.000 MHz (new)

40 meters

Extra:
7.125-7.300 MHz (gain of 25 kHz)

General:
7.175-7.300 MHz (gain of 50 kHz)

Novice:
7.200-7.300 MHz (new)

15 meters

Extra:
21.200-21.450 MHz (no change)

General:
21.275-21.450 MHz (gain of 25 kHz)

Novice:
21.350-21.450 MHz (new)

10 meters

Extra and General:
28.300-29.700 MHz (no change)

Novice:
28.300-28.500 MHz (no change)

Proposed CW/Data-Exclusive HF Subbands (Includes Novice Refarming Proposal)

80 meters

Extra:
3.500-3.725 MHz

General:
3.525-3.725 MHz

Novice:
3.550-3.700 MHz

40 meters

Extra:
7.000-7.125 MHz

General:
7.025-7.125 MHz

Novice:
7.050-7.125 MHz

15 meters

Extra:
21.000-21.200 MHz

General:
21.025-21.200 MHz

Novice:
21.050-21.200 MHz

10 meters

Extra/General:
28.000-28.300 MHz

Novice:
28.050-28.300 MHz

ARRL Proposal

because the technical level of the exams passed by these licensees is very similar. New applicants for Extra would have to pass a 5 WPM Morse code examination, but the written exam would stay the same. The League's plan calls for current Novice, Tech Plus and General class licensees to receive lifetime Element 1 (5 WPM Morse) credit.

"This structure provides a true entry-level license with HF privileges to promote growth in the Amateur Service," Harrison said. "It also simplifies the FCC database by conforming to the current Universal Licensing System (ULS) structure and does not mandate any modifications to it."

Sumner concurred. "The Board started out by recognizing that three license classes was the right number when looking down the road 10 or 15 years," he said. "We need a new entry-level license."

"On the other hand, there's nothing particularly wrong with the existing Extra class license," he continued. "The change in the international regulations notwithstanding, the Board felt that the highest level of accomplishment in the FCC's amateur licensing structure should include basic Morse capability."

Sumner and Harrison say the current Technician entry-level ticket provides little opportunity to experience facets of ham radio beyond repeater operation. "The quality of that experience," Sumner said, "often depends on the operator's location."

Among other advantages, Sumner said the plan would allow new Novices to

participate in HF SSB emergency nets on 75 and 40 meters as well as on the top 100 kHz of 15 meters. The new license also could get another name, Sumner said. "We're trying to recapture the magic of the old Novice license, but in a manner that's appropriate for the 21st century."

Proposal Includes "Novice Refarming" Band Plan

The overall proposed ARRL license restructuring plan would more smoothly integrate HF spectrum privileges across the three license classes and would incorporate the "Novice refarming" plan the League put forth nearly two years ago in a Petition for Rule Making (RM-10413). The FCC has not yet acted on the ARRL plan, which would alter the current HF subbands. The Novice refarming proposal would eliminate the 80, 40 and 15-meter Novice/Technician Plus CW subbands as such and reuse that spectrum in part to expand phone/image subbands on 80 and 40 meters.

The ARRL license restructuring design calls for no changes in privileges for Extra and General class licensees on 160, 60, 30, 20, 17 or 12 meters. Novice licensees would have no access to those bands.

The amateur community and other interested parties will have an opportunity to comment on the ARRL proposal once the League formally files a Petition for Rule Making and the FCC puts it on public notice.

This article was taken from The ARRL Letter, January 23, 2004 with permission from the American Radio Relay League.

Members Wanted

A single issue of this newsletter is being sent to a new local Ham every month in an effort to increase club membership. Please pay us a visit at one of our monthly meetings or just complete the application/renewal form on page 9 to become a member.

The Art & Skill of Radio Telegraphy

The Art & Skill of Radio Telegraphy is a manual for learning, using, mastering and enjoying the International Morse Code as a means of communication. It was written by William G. Pierpont, N0HFF, "For those who are interested in telegraphy, for those who would like to learn it, for those who love it, and for those who want to improve their skills in it."

The third edition of the book can be downloaded from the web at no cost.

<http://www.qsl.net/n9bor/n0hff.htm>

If you prefer a bound book, the fourth edition can be purchased at cost, \$11.50, including shipping from:

Irene Kott
44609 N. Bunker Hill Dr.
Clinton Township, MI 48038

Make check payable to FISTS CW Club



From The Past

October 20, 2002 - The Mich-A-Con Amateur Radio Club's participation in JOTA went well yesterday. About 60 scouts took part in "Jamboree On The Air" from the Marion Park Scout Building in Norway, across from the county fair grounds.



Shown left to right - Lee, N8LT; Skip, KE9L and two of the scouts participating in the event.

The bands were open and a number of stations were contacted including some DX! Of note was a QSO with a fellow in New Delhi, India on 20 meters at 2012 UTC.

The station setup included a 100 watt transceiver and a dipole antenna that tuned up on 10, 15 and 20 meters.

Club patches are available from:

Steve Johnson, KC8RYY
917 Coolidge Ave
Kingsford, MI 49802

They are 3 inches in diameter and sell for \$3.00 each. If ordering by mail, please include a SASE along with your payment

Buy - Sell - Trade:

See the buy-sell-trade page on the club web site: <http://www.qsl.net/ka1ddb>

Club Apparel:

Our club apparel is supplied by:

Shirt Tails
408 S Stephenson Ave.
Iron Mountain, MI 49801

Phone: (906)774-3370
or
finleyd@up.net

Prices:

Jacket with liner \$45
(Tall add \$5, 2X or 3X add \$5, to add your name or call sign on the front is \$5)

T-Shirt - \$10
(2X or 3X add \$1)
Sweatshirt - \$16
(2X or 3X add \$2)

If you wish to have the club logo printed on an item of clothing that you have purchased elsewhere, there is charge of \$6.

Did You Know:

The club constitution is available on the Membership page of our web site.

The secretary brings a copy to each meeting, should the need arise to consult it.

Coordinated Universal Time (UTC) is the time at the zero or reference meridian (formerly called Greenwich Mean Time (GMT), because the reference meridian passes through Greenwich, England.)

Time changes one hour with each change of 15 degrees in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

24-hour Time

Twenty-four-hour time lets you avoid the confusion that may come about with AM and PM.

Each day starts at midnight, 0000 hours. Noon is 1200 hours, and the afternoon hours merely go on from there. You can think of it as adding 12 hours to the normal PM time - 3 PM is 1500 hours, 9:30 PM is 21:30 hours, and so on.

However you learn it, be sure to use the time everyone else does - UTC. See the time conversion table to the right.

For The Beginner

Coordinated Universal Time (UTC) is used in amateur radio, the military and all international affairs, wherever an unambiguous time standard is needed.

You might as well become familiar with it early in your amateur radio activities because it will make DXing, QSLing, contesting and just about any other facet of amateur radio where time and date are used, much easier to deal with.

Imagine working a DXpedition in some far reaches of the globe and sending the QSL manager a QSL card with the date and time written as Central Standard Time. You might as well have tossed the card in your waste basket, because that's exactly what he is going to do! When dealing with tens of thousands of log entries, he doesn't have the time to convert the time and date on your card to the time and date in the DXpedition's log (which is always kept in UTC.)

Make life easy for yourself, buy a 24-hour clock and set it to UTC. Do the same with the computer that you use for logging. It is much easier to use UTC than to tell the logging program how many hours difference there is between UTC and your time zone. You won't have to worry about setting the clock ahead or turning it back when your local time changes between Standard time and Daylight Savings time. UTC can be obtained by tuning your radio to the time standard, WWV, in Fort Collins, Colorado (10.0 MHz is your best bet).

It is important to remember that when the time changes from 2359 UTC to 0000 UTC a new day has begun in UTC time. Make sure that the proper date is placed in your log and on your QSL card if you expect to get a QSL card in return.

Mike Bray, K8DDB

| UTC | EDT/AST | CDT/EST | MDT/CST | PDT/MST | PST |
|------|---------|---------|---------|---------|------|
| 0000 | 2000 | 1900 | 1800 | 1700 | 1600 |
| 0100 | 2100 | 2000 | 1900 | 1800 | 1700 |
| 0200 | 2200 | 2100 | 2000 | 1900 | 1800 |
| 0300 | 2300 | 2200 | 2100 | 2000 | 1900 |
| 0400 | 0000 | 2300 | 2200 | 2100 | 2000 |
| 0500 | 0100 | 0000 | 2300 | 2200 | 2100 |
| 0600 | 0200 | 0100 | 0000 | 2300 | 2200 |
| 0700 | 0300 | 0200 | 0100 | 0000 | 2300 |
| 0800 | 0400 | 0300 | 0200 | 0100 | 0000 |
| 0900 | 0500 | 0400 | 0300 | 0200 | 0100 |
| 1000 | 0600 | 0500 | 0400 | 0300 | 0200 |
| 1100 | 0700 | 0600 | 0500 | 0400 | 0300 |
| 1200 | 0800 | 0700 | 0600 | 0500 | 0400 |
| 1300 | 0900 | 0800 | 0700 | 0600 | 0500 |
| 1400 | 1000 | 0900 | 0800 | 0700 | 0600 |
| 1500 | 1100 | 1000 | 0900 | 0800 | 0700 |
| 1600 | 1200 | 1100 | 1000 | 0900 | 0800 |
| 1700 | 1300 | 1200 | 1100 | 1000 | 0900 |
| 1800 | 1400 | 1300 | 1200 | 1100 | 1000 |
| 1900 | 1500 | 1400 | 1300 | 1200 | 1100 |
| 2000 | 1600 | 1500 | 1400 | 1300 | 1200 |
| 2100 | 1700 | 1600 | 1500 | 1400 | 1300 |
| 2200 | 1800 | 1700 | 1600 | 1500 | 1400 |
| 2300 | 1900 | 1800 | 1700 | 1600 | 1500 |

- UTC** - Universal Coordinated Time
- AST** - Atlantic Standard Time
- EDT** - Eastern Daylight Time
- EST** - Eastern Standard Time
- CDT** - Central Daylight Time
- CST** - Central Standard Time
- MDT** - Mountain Daylight Time
- MST** - Mountain Standard Time
- PST** - Pacific Standard Time
- Alaskan Standard Time** = UTC minus 9 hours
- Hawaiian Standard Time** = UTC minus 10 hours

Mich-A-Con ARC January 2004 Survey Results

(Continued from page 3)

What Amateur Radio related group activities would you be interested in (e.g. Field Day, Special Event Operation, Scout Jamboree On The Air, Hidden Transmitter Hunting, etc.)?
 Field Day(4), Special Events(3), Hidden Transmitter Hunting(3), Scout JOTA(3)

What club social activities would you be interested in?

Christmas dinner(2), club picnic(3), hamfest/swap meets(2), Saturday morning breakfasts.

Would a periodic get-together on Saturday mornings for breakfast be something you would be interested in (no business meeting)? Yes 6, No 1, Maybe 2

If so, how often?

Don't know, once per month(2), once or twice per year, not very often, sounds good – 9 to 10 AM or so.

There is a need to replace club officers periodically to bring fresh ideas and energy into the leadership positions. After a number of years in office, burnout occurs and the job becomes a burden to even the most energetic of us. The office of club President is presently vacant and we need someone to fill the position. Would you be willing to do so? Yes 1, No 8

Yes – when meeting day is changed

No - currently hold an office(2), held an office in the past(2), don't have the time, medical problems

Would you be willing to fill a club office at some future time? Yes 5, No 4

If so, what office(s)?

Secretary, treasurer, any, not sure(2)

Should the club have a newsletter? Yes 8, No 0, No answer 1

If so, should it only be available on our web site to those that have internet access and mailed to others, or should it be mailed to all members (savings in postage and copying costs)?

Email or internet is OK(7), mail it(1)

What role would you be willing to play in the production of the newsletter?

Any way I can help. Help with ads and circulation. Editor, articles. Furnish tidbits of info.

Please add any additional comments that you feel would contribute to the betterment of the club.

The newsletter was great, more communication between members, more activities that are fun.

Interested in linking our repeater with those west of here if it could be done and there was interest from others in the club.

Nice letter! Very nice to see Mike Wolfe remembered! Nice to see repeater being worked on.

Emergency drills, 2-meter net once per week.

The questionnaire is a great idea! We should have done it long ago.

Sorry I'm not active, but I have so many other interests and commitments.

License Study Materials Available from the ARRL:

Technician Class:

Now You're Talking - 5th edition - Order No. 8810
 \$19.95

ARRL's Tech Q&A - 3rd edition - Order No. 8829
 \$12.95

ARRL Technician Class Video Course - 4th ed.
 DVD Course No. 9116
 VHS Course No. 8837
 \$149 each + \$12 s&h

General Class:

ARRL General Class License Manual - 4th ed.
 Valid through June 30, 2004 - Order No. 8004
 \$15

ARRL's General Q&A
 Valid through June 30, 2004 - Order No. 8586
 \$12.95

ARRL General Class Video Course - Valid through June 30, 2004
 Order No. 8349
 \$149 + \$12 s&h

Your Introduction to Morse Code - Pass 5 wpm test
 Cassettes No. 8322
 Audio CD No. 8314
 \$14.95 each

Ham University - Complete Edition - Learn Morse code with this easy to use software. Includes a written exam quiz generator with all three question pools. CD-ROM for Win95-XP
 Order No. 8735
 \$39.95

Phone: 1-888-277-5289

or

<http://www.arrl.org/catalog/lm>

<http://www.arrl.org/catalog/8330>

<http://hamuniversity.com>

Mich-A-Con Amateur Radio Club
Membership Application/Renewal Form

Please remit dues to club treasurer:
Steve Johnson, KC8RYY
917 Coolidge Ave
Kingsford, MI 49802

Name: _____
Address: _____
City, State, Zip: _____
Call Sign: _____
Email Address: _____
Phone: _____
ARRL Member? Yes _____ No _____

Single \$20 _____ * Family \$30 _____ *

If family membership, please list additional names and call signs:

* The dues for NEW members are prorated - you only pay for the remainder of the year! Please remit \$1.67 per month for a Single membership or \$2.50 per month for a Family membership.

Exam Schedule

City: Iron Mountain
Location: Dickinson County Library
Room: Conference Room
Time: 9:30 AM Central Time
Contact: Mark Lewis, N8UKD
Telephone: (906) 774-6598

Exam Date: May 1, 2004
Exam Date: Aug 7, 2004
Exam Date: Nov 6, 2004
Exam Date: Feb 5, 2005

Mich-A-Con RF is published by the Mich-A-Con Amateur Radio Club of Iron Mountain.

Items for Mich-A-Con RF should be in the editor's hands by the 15th of the preceding month to be included in the next edition.

Send to:
mikebray@chartermi.net
(906) 563-7020

Repeaters

The club maintains two repeaters, which are located on Pine Mountain in Iron Mountain, with tower and facilities provided by the Wisconsin Electric Power Co.

Identifier: WA8FXQ/R IMT

| Output | Offset | PL Tone |
|-------------|--------|---------|
| 146.850 MHz | minus | — |
| 444.850 MHz | plus | 100 |

Examinees should bring 2 pencils, a pen for the official paperwork, the originals AND copies of any previous credit that you have earned (Certificates of Successful Completion or current license), 1 photo id (usually a driver's license) and 1 other id. (usually a birth certificate or SS card), a calculator if needed (make sure your memories are cleaned out), and the test fee (2004 fee is \$12).

Both repeaters have an auto patch with a toll restriction. The auto patch on the 2-meter repeater can be used with permission. The 440 auto patch is for club use only.

Mich-A-Con RF

Mich-A-Con ARC
c/o Michael F. Bray
W3821 Waucedah Road
Vulcan, MI 49892-8483

Stamp

Mailing label goes here

Mich-A-Con RF

Club Meetings

The Mich-A-Con Amateur Radio Club meets on the second Wednesday of the month at 7 PM in the basement of the Grace United Methodist Church, 721 Norway Street in Norway, Michigan. Visitors and prospective members are always welcome!

The URL for the Mich-A-Con ARC web site is:

<http://www.qsl.net/ka1ddb/>

Previous editions of Mich-A-Con RF can be accessed by a link on the news page.

CLUB OFFICERS

President:

Vacant

Vice President:

Tom Martin, W8JWN
(906) 774-5463
tmartin@chartermi.net

Secretary:

Mike Bray, K8DDB
(906) 563-7020
mikebray@chartermi.net

Treasurer:

Steve Johnson, KC8RYY
(906) 776-1597
sjohnson4@chartermi.net

Reminders

Please come to the March 10th meeting, we will be making decisions that will affect the future of our club!

Volunteers are needed for Jamboree On The Air the weekend of October 16 and 17 (only one of these days).

Don't forget to send in your club membership application/renewal form if you haven't already done so!